

In the Claims:

- 1 (currently amended) - Confocal optical device for illuminating at least one ~~illuminated~~ point (309) using an illuminating beam coming from an illumination source (300) and
5 focused on said ~~the illuminated~~ point, and for focusing on a microscopic hole (306) associated with the illuminated point a beam to be detected coming from the illuminated point, comprising:
- a beamsplitter (321) passed through by a first beam (FD) and reflecting a second beam (FE), one of the first and second beams being the illuminating beam (FE), and the other
10 being the beam to be detected (FD), ~~the beamsplitter being exchangeable, the device being characterised by the following facts:~~
 - ~~it comprises~~ a redirection mirror (320) substantially parallel to the beamsplitter and attached to the beamsplitter, the assembly consisting of the beamsplitter and the redirection mirror being exchangeable, reflecting the second beam,
15 ~~the beamsplitter and the redirection mirror are attached to one another,~~
so that ~~the redirection mirror and the beamsplitter together constitute a splitter unit, intended to be exchanged all in one piece at the time the beamsplitter is exchanged.~~
- Characterised by the following facts:
- it is adapted for illuminating a plurality of points using a plurality of illuminating beams
20 and for focusing on a plurality of microscopic holes the beams to be detected coming from the plurality of illuminated points, and
 - the redirection mirror is disposed in order to reflect the second beam.

- 2 (original)- Optical device according to Claim 1, characterised by the fact that said
25 beamsplitter and redirection mirror are placed in an afocal zone, in which the illuminating beam and the beam to be detected are substantially parallel.

Claim 3 (canceled).

- 30 4 (currently amended) - Optical device according to ~~one of Claims Claim 1 to 3,~~
characterised by the fact that the beamsplitter (602) and the redirection mirror (603) are placed on two opposite faces of a parallel window (600).

5 (original)- Optical device according to Claim 4, characterised by the fact that the beamsplitter and the redirection mirror are made by depositions of thin coatings on the parallel window.

5 6 (currently amended)- Device according to ~~either of Claims~~ claim 4 ~~or 5~~, characterised by the fact that the parallel window is disposed so that

- the optical path of the second beam (FE) comprises successively a first passing-through of the parallel window, a reflection on a first mirror, a second passing-through of the parallel window, a reflection on a second mirror, and a third passing-through of the
10 parallel window, one of the first and second mirrors being the redirection mirror and the other being the beamsplitter, and

- the optical path of the first beam (FD) comprises a passing-through of the parallel window and a passing-through of the beamsplitter.

15 7 (currently amended) - Device according to ~~one of Claims~~ claim 1 ~~to 6~~, characterised by the fact that said beamsplitter is a dichroic mirror and said redirection mirror is a totally reflective mirror.

8 (currently amended) - Device according to claim 1, ~~one of Claims 1 to 7~~, characterised
20 by the fact that said beamsplitter is a beamsplitter that is neutral as regards wavelength and said redirection mirror is a totally reflective mirror.

9 (currently amended)- Device according to claim 1 ~~one of Claims 1 to 8~~, characterised by the fact that it comprises a plurality of splitter units each comprising a beamsplitter and a
25 corresponding redirection mirror, and by the fact that it comprises a means for alternately placing one or another of the splitter units on the optical path.

10 (original)- Device according to Claim 9, characterised by the fact that said means for placing is a slider.
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11 (original)- Device according to Claim 9, characterised by the fact that said means for placing is a wheel turning about an axis and on which the splitter units are mounted.

12 (currently amended)- Beamsplitter ~~Splitter~~ unit intended for a confocal optical device according to Claim 1, characterised by the fact that it consists of a parallel window,

- a first face of said window comprising a first area on which a dichroic or partially reflective mirror is made by deposition of at least one thin coating, intended to be passed
5 through by a first light beam and to reflect a second light beam,

- the first face of said window comprising a second non-reflective area, intended to be passed through by the second light beam,

- a second face of said window, opposite to the first face, comprising a third area on which a redirection mirror is made by deposition of at least one thin coating, intended to reflect

10 the second light beam,

- the second face of said window also comprising a fourth non-reflective area, intended to be passed through by the first light beam and by the second light beam.